

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/079462 A2

(51) International Patent Classification: Not classified

(US). MONTEZ, Jason, M. [US/US]; 1017 Jefferson Street, Apt. 219, Hoboken, New Jersey 07030 (US).

(21) International Application Number:
PCT/US2005/005080

(74) Agents: HALEY, James, F., Jr. et al.; Fish & Neave IP Group, Ropes & Gray LLP, 1251 Avenue of the Americas, New York, New York 10020 (US).

(22) International Filing Date: 17 February 2005 (17.02.2005)

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data:
60/546,075 18 February 2004 (18.02.2004) US

(71) Applicant (for all designated States except US): CHROMOCELL CORPORATION [US/US]; 675 U.S. Highway One, North Brunswick, New Jersey 08902 (US).

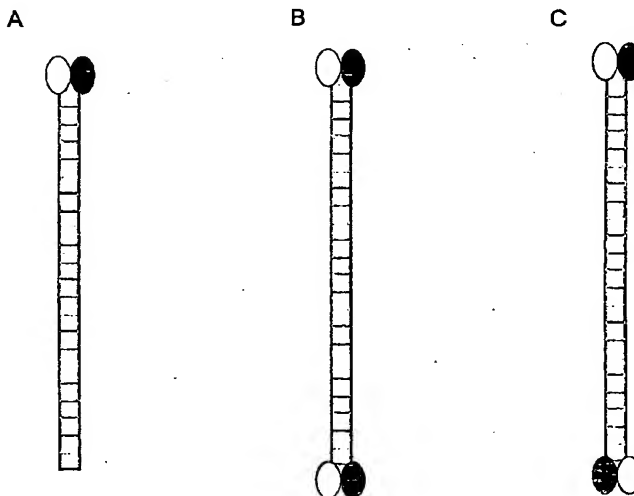
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

(72) Inventors; and

(75) Inventors/Applicants (for US only): SHEKDAR, Kam-biz [US/US]; 29 Fifth Avenue, Apt. 6A, New York, New York 10003 (US). SAWCHUK, Dennis, J. [CA/US]; 77 Park Avenue, Apt. 1007, Hoboken, New Jersey 07030

[Continued on next page]

(54) Title: METHODS AND MATERIALS USING SIGNALING PROBES



(57) Abstract: The present invention relates to methods of isolating cells or generating cell lines using signaling probes that produce a signal upon hybridization to a target sequence. Other methods that utilize the signaling probe include methods of quantifying the level of RNA expression, methods for identifying genetic recombinational events in living cells and methods of generating a transgenic animal using the isolated cells. The invention also provides protease probes. Signaling probes and protease probes that form stem-loop structures, three-arm junction structures, and dumbbell structures are provided.

WO 2005/079462 A2



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- without international search report and to be republished upon receipt of that report